Fabreeko.com BadgerBox Simple ADXL

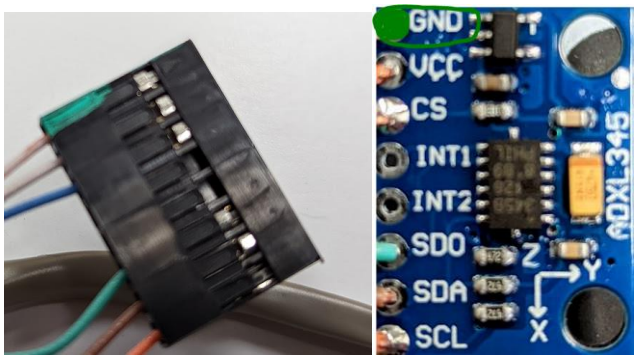
Prerequisites:

1. Klipper must be at least on firmware version 0.10.0-4XXX (May 8, 2022, was the firmware flashing date.)
2. Dependencies must be installed. Run the following command:
    a. ~/klippy-env/bin/pip install -v numpy
    (Note: depending on CPU speed this may take up to 10-20 minutes.)
3. Next update additional dependencies by running the following commands:
    a. sudo apt update
    b. sudo apt install python3-numpy python3-matplotlib

Hardware install:

The cable from the BadgerBox will have a GREEN marking on the dupont connector indicating it is the ground wire (see Image A below.) Insert the dupont connector to the ADXL chip so the GREEN marking (Image A) on the connector lands on the GND pin (Image B) of the ADXL.

Image A **Image B**



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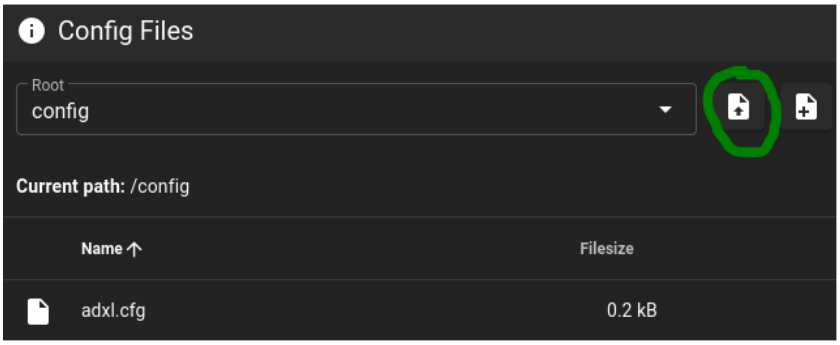
Software configuration:

1. Download the adxl.cfg file from: Default ADXL file
2. Import file into Mainsail/Fluidd (see image below.)



3. Open the adxl file and insert your serial number located on the packaging.

```
##
[mcu pico]
serial: /dev/serial/by-id/usb-Klipper_rp2040_XXXXXXXXXXXXXXXX-if00
```

4. Open the printer.cfg file insert the following:

   [include adxl.cfg] `[include adxl.cfg]`

5. Save & Restart.
6. Test by inserting the following into the console:

   ACCELEROMETER_QUERY

   (Note the first time will likely fail. This is normal so press the up arrow and try it again.) If everything goes correctly you should receive sample values like the image below:

   ```
   Recv: // adxl345 values (x, y, z): 470.719200, 941.438400, 9728.196800
   ```

7. Refer to the Klipper Measuring Resonances documentation here: https://www.klipper3d.org/Measuring_Resonances.html
8. Locate a mount for your printer via one of the STL repository sites.